

# **PACKET TRANSFER CONTROLLER, PACKET TRANSFER CONTROL METHOD AND PACKET TRANSFER CONTROL SYSTEM**

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**Applicant(s):** NEC CORP +

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- European:

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 JP3584877 (B2)

## **Abstract of JP 2002176454 (A)**

**PROBLEM TO BE SOLVED:** To provide a packet transfer controller, a packet transfer control method and a packet transfer control system that enable an illegal packet whose transmission source is not correct to be prevented from being transferred through a network such as the Internet. **SOLUTION:** The packet transfer controller 207 placed at a branch point of a network such as the Internet receives packets via 1st, 2nd,..., Nth interface circuits 2141, 2142,..., 214N and an SA(source address) classification section 222 registers a relation between a source address and the interface circuits 214 to a classification table 225.; When the interface circuits 214 are registered for the same source address, the controller 207 transmits a source address inspection packet to the source address and a filter section 216 discards the packet of the source address received from a path other than the interface circuits 214 receiving the replied packet. The controller 207 can detect a similar illegal access by using a TTL(Time To Live) field.

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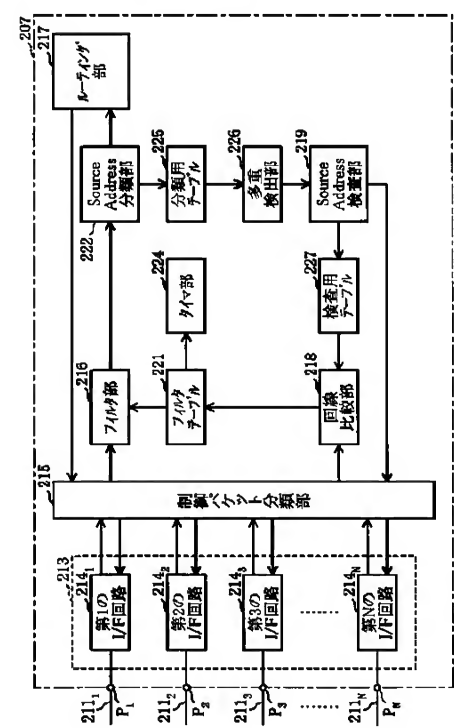
(51) Int.Cl. <sup>7</sup>	識別記号	F I	テームコード* (参考)
H 0 4 L 12/66		H 0 4 L 12/66	B 5 B 0 8 5
G 0 6 F 13/00	3 5 1	G 0 6 F 13/00	3 5 1 Z 5 B 0 8 9
	3 3 0	15/00	3 3 0 A 5 K 0 3 0
H 0 4 L 29/02		H 0 4 L 13/00	3 0 1 Z 5 K 0 3 4

審査請求 有 請求項の数28 O L (全 28 頁)

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(54) 【発明の名称】 パケット転送制御装置、パケット転送制御方法およびパケット転送制御システム

















































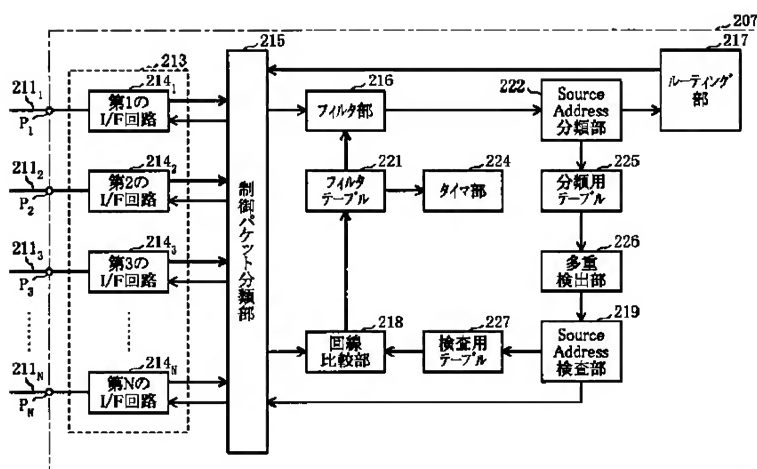
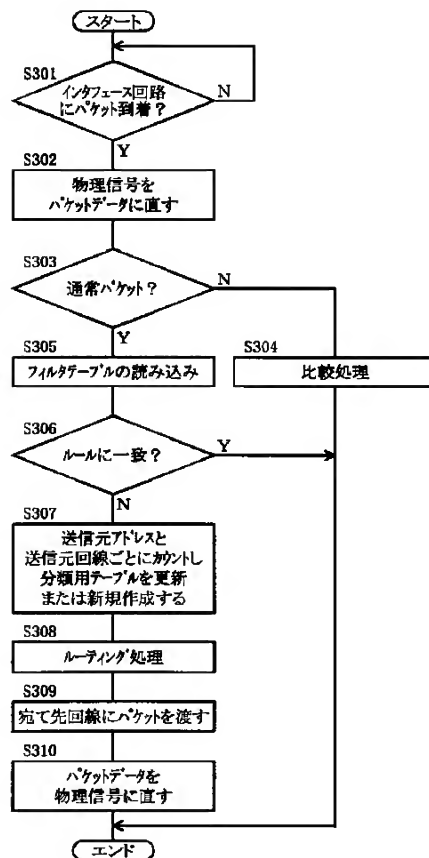
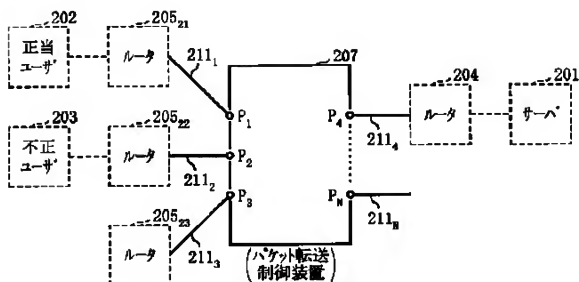
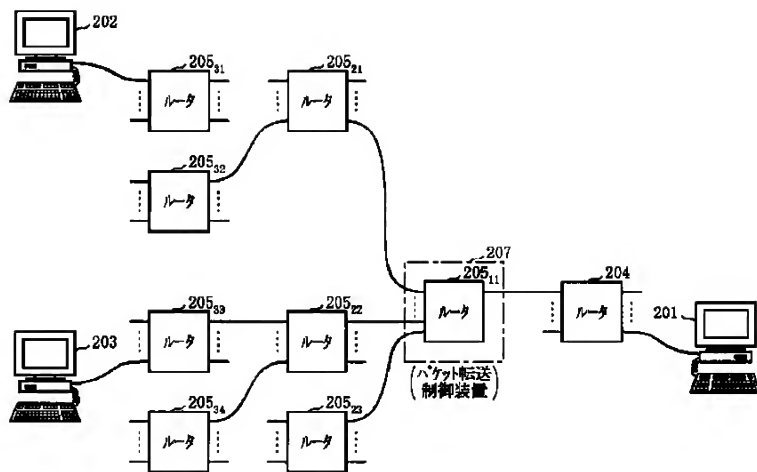




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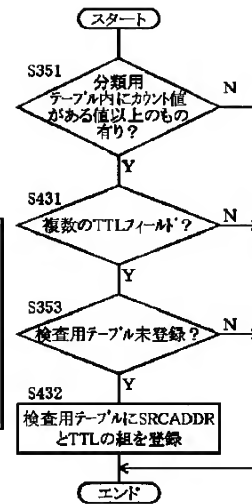
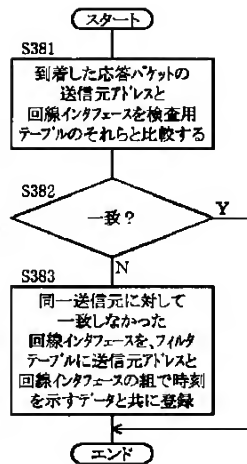
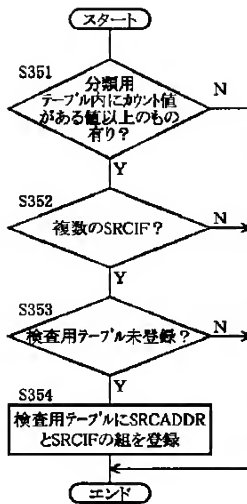


	322	323	324	221
	SRCADDR	SRCIF	TIMER	
0	10, 5, 5, 8	2	11, 20, 20, 10	
1	12, 8, 3, 7	3	11, 21, 21, 11	
2				
...				
N-1				

(フィルタテーブル)

	332 SRCADDR	333 SRCIF	334 COUNTER
0	13, 9, 2, 6	4	30
1	13, 9, 2, 6	1	15
2			
	⋮	⋮	⋮
M-1			

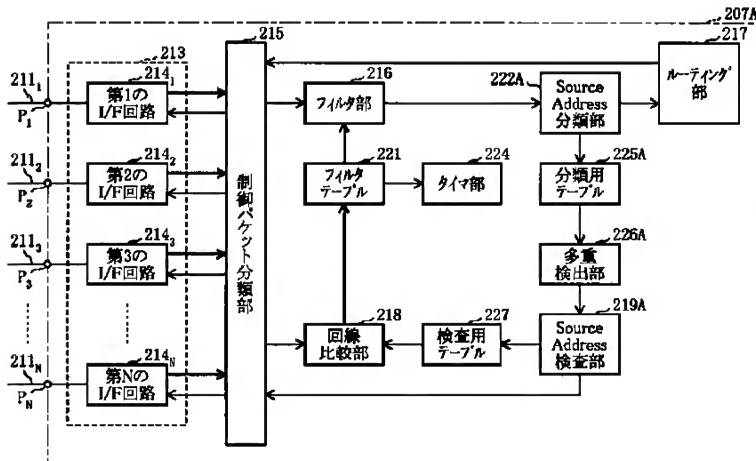
(分類用テーブル)



	362 SRCADDR	363 <sub>1</sub> 第1のSRCIF	363 <sub>2</sub> 第2のSRCIF	363 <sub>3</sub> 第3のSRCIF	363 <sub>4</sub> 第4のSRCIF	363 <sub>N</sub> 第NのSRCIF
0	13, 9, 2, 6	15			30	.....
1						.....
2						.....
	⋮	⋮	⋮	⋮	⋮	⋮
L-1						.....

(検査用テーブル)

Ver	IHL	TOS	TL
IDENTIFICATION		FLAG	FLAGMENT OFFSET
TTL	PROTO=1	HEADER CHECKSUM	
SOURCE ADDRESS			
DESTINATION ADDRESS			
TYPE=0	CODE=0	CHECKSUM	
IDENTIFIER		SEQUENCE NUMBER	



	332 SRCADDR	411 TTL	334 COUNTER
0	13, 9, 2, 6	15	3
1	13, 9, 2, 6	50	2
2			
	⋮	⋮	⋮
M-1			

225A

